

NSLS OHSAS Job Risk Assessment

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Name(s) of Risk Team Members: D. Abel, J. Aloï, S. Cheung, R. Hubbard, B. Karlin, A. Mingino, G. Nintzel, M. Sullivan	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Lead Handling Job Number or Job Identifier: LS-JRA-0025	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description: Lead Handling for radiation shielding installation and modification.	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedure List (Optional): Lead Awareness, Hazardous Waste, Laboratory Standard, EMS Read & Sign, PRM & SA Lead	Likelihood (D)	Extremely Unlikely <<1x/20yrs	Unlikely 1x/10-20yrs	Possible >1x/10-20yrs	Probable 1x/yr	Multiple >1x/yr
Approved by: W. R. Casey Date: 9/16/05 Rev. #: 1 Revision Log						
Stressors (if applicable, please list all):		Reason for Revision (if applicable):			Comments:	

		Before Controls							After Initial Controls						After Additional Controls					
Job Step / Task	Hazard	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Initial Controls	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Lead handling including shaping, pounding,	Inhalation of lead dust	N	1	2	2	5	20	Work planning/experimental review, PPE, area posting, applicable subject areas, area and/or personnel monitoring, training, time limits, NSLS PRM	1	2	2	2	6							

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Manual cutting, stacking and un-stacking (including decommissioning a beamline)	Ingestion of lead due to poor hygiene	N	1	2	2	5	20	Work planning/experimental review, PPE, area posting, applicable subject areas, training, hand washing, NSLS PRM	1	2	2	2	6							
	Struck by and crush hazard	N	1	2	4	3	24	work planning/experimental review, PPE, applicable subject areas, training	1	2	3	3	18							
	Hand tool use							See LS JRA-0014												
Machining Lead	Exposure to lead dust and fumes by inhalation	N	1	2	2	5	20	Time limits, machine speed limits, PPE, PRM, work planning/experimental review, area posting, applicable subject areas, area and/or personnel monitoring, training, NSLS PRM	1	2	2	2	6							
	Ingestion of lead due to poor hygiene	N	1	2	2	5	20	work planning/experimental review, PPE, area posting, applicable subject areas, training, hand washing, NSLS PRM	1	2	2	2	6							
	Struck by and crush hazard	N	1	2	4	3	24	work planning/experimental review, PPE, applicable subject areas, training	1	2	3	3	18							
	Machine Shop Use							See LS JRA-0017												
Cleaning oxidized lead	Inhalation of lead dust	N	1	2	2	5	20	work planning/experimental review, PPE, area posting, applicable subject areas, area and/or personnel monitoring, training, time limits, NSLS PRM	1	2	2	2	6							

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	Ingestion of lead due to poor hygiene	N	1	2	2	5	20	work planning/experimental review, PPE, area posting, applicable subject areas, training, hand washing, NSLS PRM	1	2	2	2	6							
	Struck by and crush hazard	N	1	2	4	3	24	work planning/experimental review, PPE, applicable subject areas, training	1	2	3	3	18							
	Chemical use							See LS JRA-0020												
Material handling - manual	See LS JRA-0018																			
Material handling - mechanical	See LS JRA-0019																			
Hazardous waste generation	See LS JRA-0026																			
*Risk:	0 to 20 Negligible	21 to 40 Acceptable						41-60 Moderate	61 to 80 Substantial					81 or greater Intolerable						